CITY OF TORRANCE **CONSTRUCTION PLANS FOR** TORRANCE CENTENNIAL PLAZA, FEAP-739

GENERAL NOTES

- THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND DEPTH OF ALL CONNECTION POINTS AND UTILITY CROSSINGS PRIOR TO BEGINNING ACTUAL CONSTRUCTION.
- THE CONTRACTOR SHALL INSPECT THE SITE AND PORTIONS THEREOF FOR EXISTING FIELD CONDITIONS THAT WILL AFFECT THE WORK PRIOR TO BEGINNING ANY WORK
- 3. THE CONTRACTOR SHALL COMPARE HIS/HER OBSERVATIONS WITH THE PLANS AND SATISFY HIM/HERSELF TO THE EXISTING CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED.
- TEMPORARY SHUTDOWN OF THE EXISTING IRRIGATION SYSTEM WITH
- AUTHORIZED REPRESENTATIVE, AND/OR AGENCY(IES) WILL BE THE
- ALSO BE GUARDED WHEN EXAMINATION INDICATES THAT HAZARDOUS GROUND MOVEMENT MAY BE EXPECTED.
- THE CONTRACTOR SHALL OBTAIN A PERMIT TO PERFORM EXCAVATION OR TRENCH WORK AS DESCRIBED IN NO.7 ABOVE FROM CAL-OSHA AND ALL APPLICABLE AGENCIES.
- ALL CONCRETE SHALL BE 560-C-3250 (GREENBOOK) UNLESS OTHERWISE SPECIFIED.
- 10. THE CONTRACTOR SHALL MAINTAIN THE WORK AREA IN A NEAT, SAFE, CLEAN, AND SANITARY CONDITION AT ALL TIMES AND TO THE SATISFACTION OF THE OWNER, OWNER'S AUTHORIZED REPRESENTATIVE, AND/OR AGENCY(IES). THE WORK SITE AND ITS AFFECTED AREAS SHALL BE KEPT CLEAN OF DEBRIS, WITH DUST AND NUISANCE BEING CONTROLLED AT ALL TIMES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ANY CLEAN-UP ON ADJACENT STREETS AND PARKING LOTS AFFECTED BY THE WORK.
- 11. THE CONTRACTOR SHALL KEEP A SIGNED SET OF APPROVED PLANS AND SPECIFICATIONS AND A COPY OF ALL CONSTRUCTION PERMITS ON THE JOB SITE AT ALL TIMES DURING WORKING OPERATIONS.
- 12. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL STATE AND LOCAL CODES AND SAFETY REQUIREMENTS. ALL WORK SHALL COMPLY WITH CONDITIONS ESTABLISHED BY THE REGIONAL WATER QUALITY CONTROL BOARD AND THE CITY.
- 13. ALL EXISTING IRRIGATION SYSTEMS SHALL REMAIN OPERATIONAL DAMAGE TO ANY EXISTING IRRIGATION SYSTEM CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE BE REPAIRED OR REPLACED BY THE CONTRACTOR(S) WITHIN THE SAME WORKDAY AT NO ADDITIONAL COST TO THE OWNER.
- 14. ALL CONCRETE SIDEWALKS OR CURBS TO BE REPLACED SHALL BE SAWCUT TO THE NEAREST TRANSVERSE SCORE MARK OR ADJUSTABLE CONTROL JOINT OR WEAKENED PLANE JOINT AND REPLACED IN CONFORMANCE WITH THE APPLICABLE CITY OF TORRANCE CODES AND STANDARDS AND TO THE OWNER'S AND/OR OWNER'S AUTHORIZED REPRESENTATIVE SATISFACTION. ALL EXPOSED CONCRETE SURFACES SHALL CONFORM IN GRADE, COLOR AND FINISH TO ALL ADJOINING CURBS AND WALKS.
- 15. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES WHICH ARE TO REMAIN.

- LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS

- THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 36 INCHES COVER ON ALL PIPELINES UNLESS OTHERWISE SHOWN OR DIRECTED.
- 20. THE CONTRACTOR SHALL ADJUST ALL VALVE BOXES, PULL BOXES
- 21. THE CONTRACTOR SHALL PROPERLY DISPOSE OF ALL DEBRIS FROM
- 22. THE CONTRACTOR(S) SHALL DISPOSE OF ALL WASTES AT AN APPROVED LANDFILL OR OTHER SUITABLE DISPOSAL SITES AT THE
- PERMIT TO EXCAVATE WILL BE VALID. FOR THE DIG ALERT ID NUMBEF THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT AT 1-800-422-4133 AT LEAST 48 HOURS BEFORE ANY EXCAVATION IN THE VICINITY OF ANY EXISTING UNDERGROUND FACILITIES.
- 24. THE CONTRACTOR SHALL RESTORE ALL SURVEY MONUMENTS THAT ARE DAMAGED OR DESTROYED DURING CONSTRUCTION.
- 25. ALL VEGETATION, SHRUBS, LANDSCAPING FEATURES DAMAGED. REMOVED, OR OTHERWISE IMPACTED BY THE WORK SHALL BE REPLACED IN KIND. ALL EXISTING TREES SHALL BE PROTECTED IN PLACE OR BE TEMPORARILY REMOVED AND REPLACED PER THE OWNER'S AND/OR THE OWNER'S AUTHORIZED REPRESENTATIVE'S

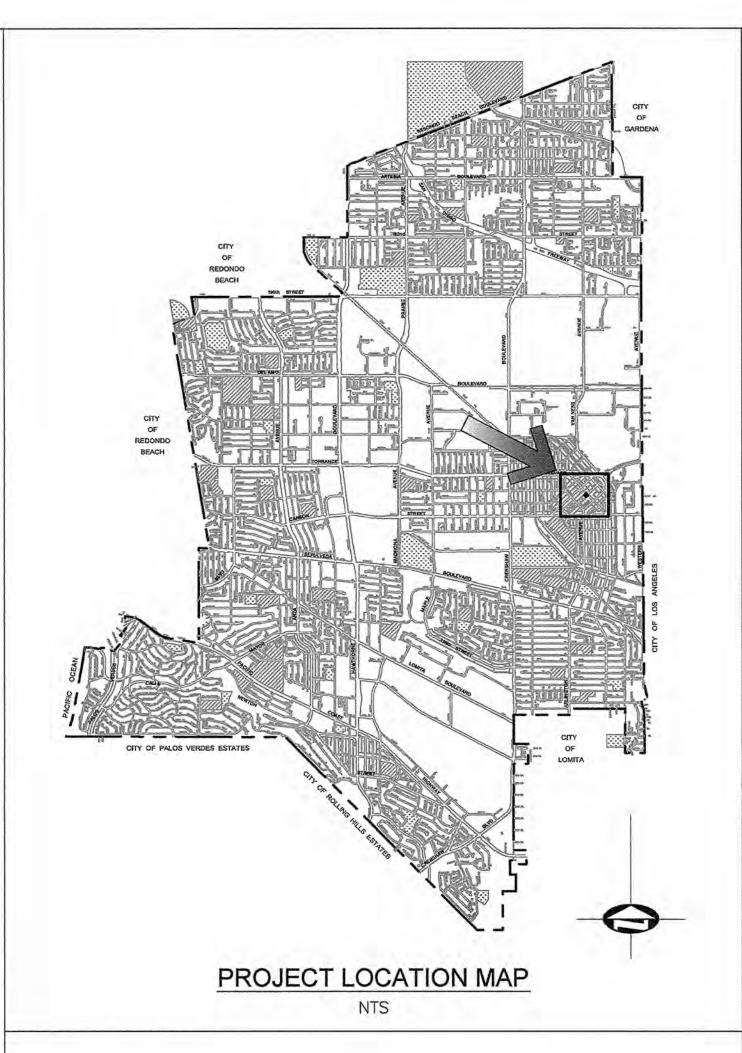


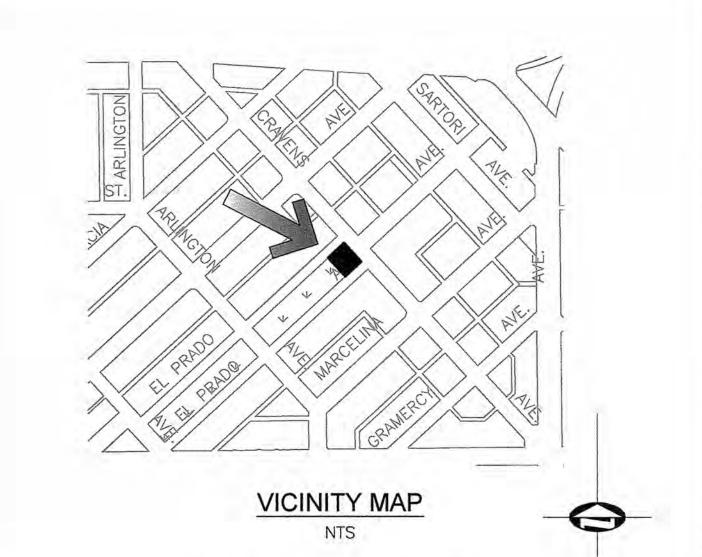
SHEET INDEX

TITLE SHEET HARDSCAPE PLAN HARDSCAPE DETAILS PLANTING & LIGHTING PLAN PLANTING DETAILS IRRIGATION PLAN IRRIGATION DETAILS PARTIAL TOPOGRAPHIC SURVEY **GRADING PLAN EROSION CONTROL PLAN** STREET LIGHT PLAN

ABBREVIATIONS

BALL VALVE CENTERLINE EXISTING FG FINISH GRADE FS **FINISH SURFACE** GALLON GROUND COVER GATE VALVE NTS NOT TO SCALE ON CENTER PROPERTY LINE POINT OF CONNECTION QUICK COUPLER REMOTE CONTROL VALVE TYP TYPICAL





Underground Service Alert



1 - 800

PLANS PREPARED BY:

TWO WORKING DAYS BEFORE YOU DIG

REVISIONS REV DATE CHECKED DESCRIPTION BY RECOMMENDED BY:

STEPHANIE HARRIS

4/13/12 BETH OVERSTREET PROJECT MANAGER R.C.E. NO. 63944 (EXP. 09/30/2012)

ARTHUR ALANIZ 4/13/12

PROJECT ENGINEER: LEA REIS, ASSOCIATE ENGINEER

CITY OF TORRANCE PUBLIC WORKS DEPARTMENT

TORRANCE CENTENNIAL PLAZA, FEAP-739

TITLE SHEET

SCALE: AS SHOWN APPROVED BY: SHEET / OF 11 4/13/2012 PLAN NO. TOUFIE JAMIL SEMAAN LS-71 ACTING CITY ENGINEER

R.C.E. NO. 59226 (EXP. 06/30/2013)

BENCHMARK:

ELEVATIONS AS SHOWN HEREON ARE IN TERMS OF THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29) BASED LOCALLY UPON THE FOLLOWING COUNTY OF LOS ANGELES BENCHMARK(S):

NGVD29 ELEV. (FT) CY 9522 118.84 CY 8324 118.02

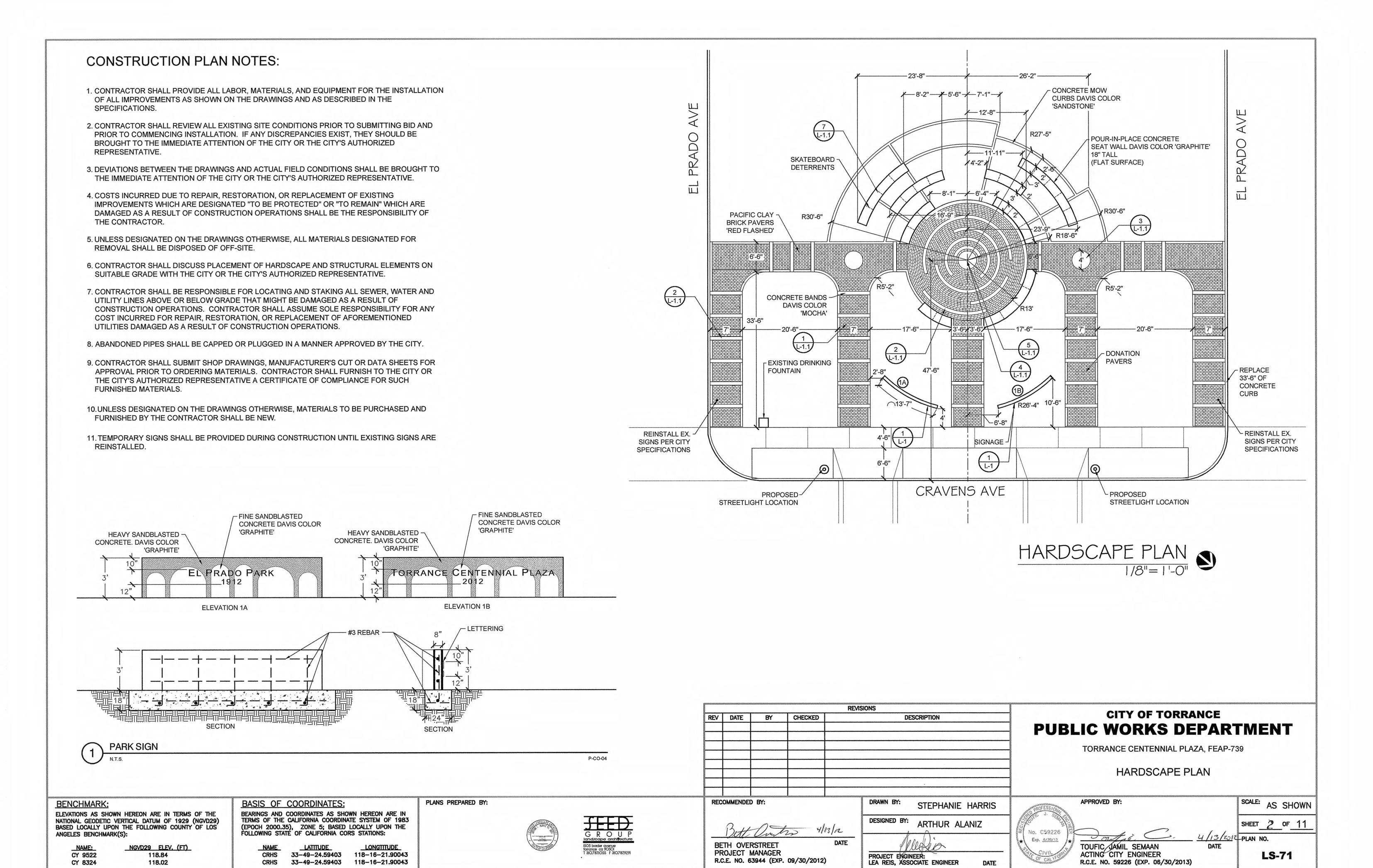
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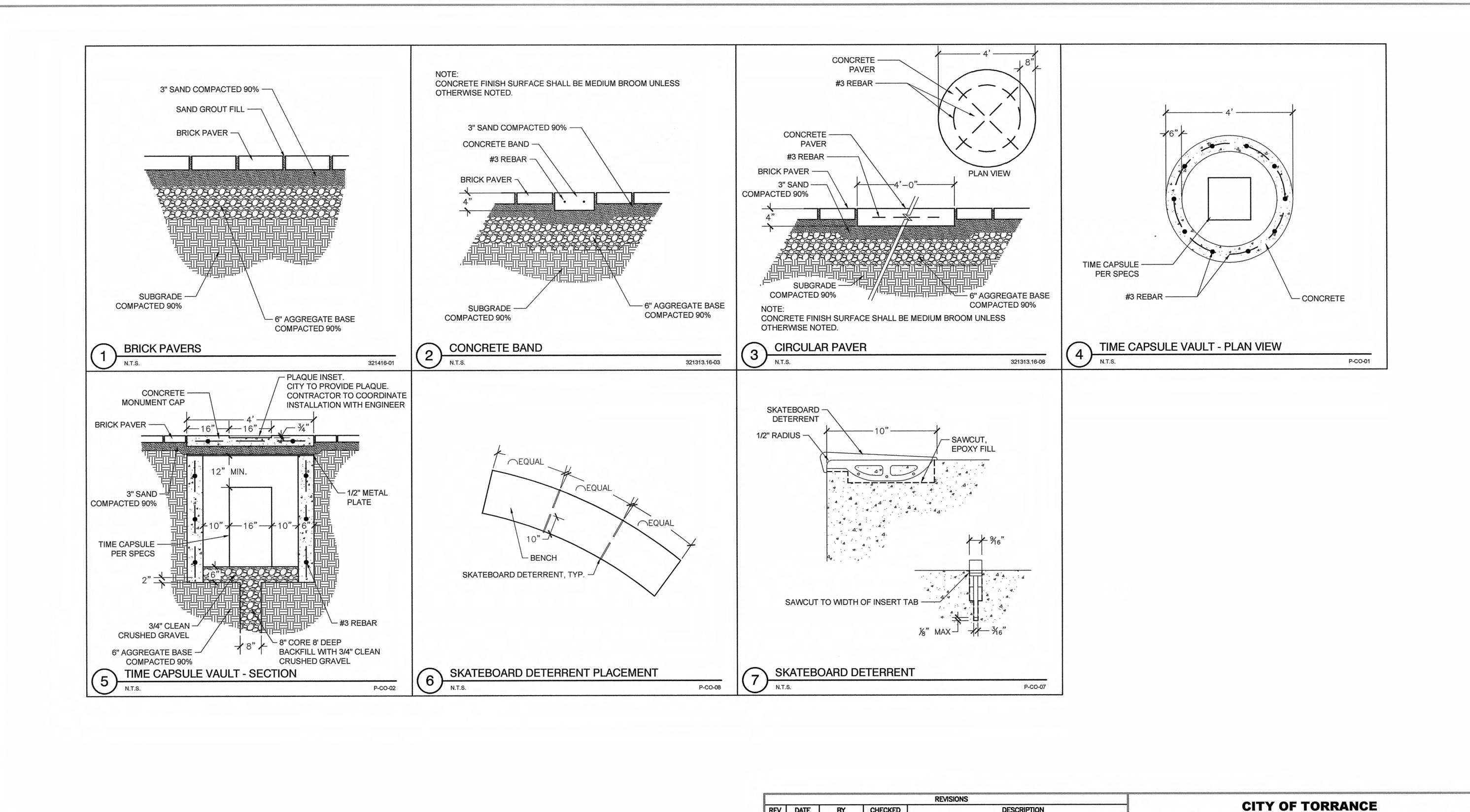
BEARINGS AND COORDINATES AS SHOWN HEREON ARE IN TERMS OF THE CALIFORNIA COORDINATE SYSTEM OF 1983 (EPOCH 2000.35), ZONE 5; BASED LOCALLY UPON THE FOLLOWING STATE OF CALIFORNIA CORS STATIONS:

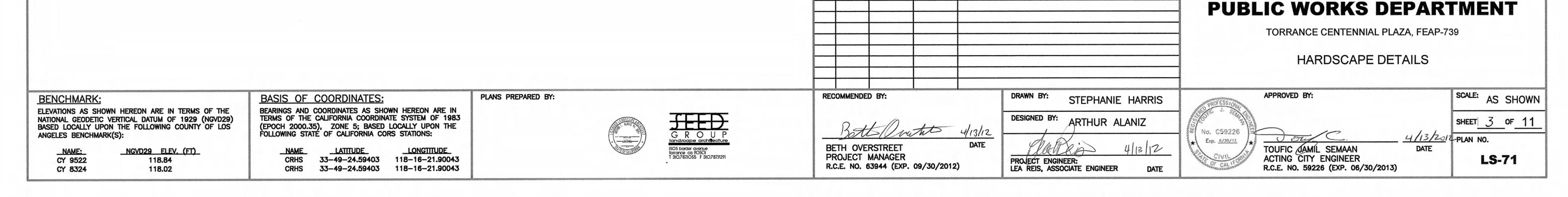
33-49-24.59403 118-16-21.90043 33-49-24.59403 118-16-21.90043











REV DATE BY

CHECKED

DESCRIPTION

LANDSCAPE NOTES:

NATURE OF THE PLANS: THE PLANS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND NOTIFY THE OWNER'S AUTHORIZED REPRESENTATIVE OF ANY DISCREPANCIES PRIOR TO START OF WORK.

CLEARING AND GRUBBING: THE CONTRACTOR SHALL CLEAR AND GRUB ALL LANDSCAPE IMPROVEMENT AREAS TO A DEPTH OF 8 INCHES BELOW FINISHED GRADE. CLEARING AND GRUBBING OPERATIONS SHALL REMOVE ALL NATURAL AND MAN MADE OBJECTS WITHIN THE SOIL INCLUDING BUT NOT LIMITED TO ALL ROOTS, CLODS AND STONES LARGER THAN 1" GREATEST DIMENSION, POCKETS OF COARSE SAND, NOXIOUS WEEDS, STICKS, BRUSH AND OTHER LITTER, FOOTINGS, ABANDONED PIPES AND UTILITY LINES, AND CONSTRUCTION LITTER, ETC. ALL BULKING OF SOIL RESULTING FROM GRUBBING OPERATIONS SHALL BE UNIFORMLY SPREAD AND COMPACTED TO GRADE OR REMOVED FROM THE SITE AS NECESSARY AT NO ADDITIONAL COST TO THE OWNER. TREES INDICATED "TO REMAIN" SHALL BE PROTECTED IN PLACE BY THE CONTRACTOR.

QUANTITIES: PLANT AND MATERIAL QUANTITIES SHOWN ON THE PLANS ARE FOR CONTRACTOR CONVENIENCE ONLY AND DO NOT LIMIT THE CONTRACTOR TO THOSE SPECIFIC QUANTITIES. PRIOR TO BID SUBMITTAL, THE CONTRACTOR SHALL VERIFY PLANT COUNTS AND FURNISH THE QUANTITIES AS NECESSARY TO DO THE SPECIFIED WORK.

TOPSOIL: IN FORMERLY PAVED AREAS, THE CONTRACTOR SHALL REMOVE THE TOP 18 INCHES AND BACKFILL WITH AN APPROVED CLASS "A" IMPORTED TOP SOIL CAPABLE OF SUSTAINING HEALTHY PLANT LIFE. IT SHALL BE OF A UNIFORM COMPOSITION AND STRUCTURE, FERTILE AND FRIABLE SANDY LOAM CONTAINING AN AMOUNT OF ORGANIC MATTER NORMAL TO THE REGION, AND SHALL NOT BE INFESTED WITH NEMATODES OR OTHER UNDESIRABLE INSECTS AND PLANT DISEASE ORGANISMS. TOPSOIL SHALL BE FROM A SOURCE DESIGNATED BY THE CONTRACTOR AND APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL GUARANTEE THE QUALITY OF THE TOPSOIL WITH A CERTIFIED AGRICULTURAL SUITABILITY EVALUATION REPORT (SOIL AND PLANT LAB, ORANGE COUNTY (714) 282-8777. SUBMIT THE EVALUATION REPORT TO THE OWNER'S AUTHORIZED REPRESENTATIVE FOR APPROVAL 30 DAYS PRIOR TO ANY TOPSOIL PURCHASE.

SOILS TESTING: TEST SOIL FOUND IN-PLACE IN THE DESIGNATED LANDSCAPE AREAS, INCLUDING SOIL COMPACTED IN PLACE AS PART OF THE EARTHWORK. TEST SAMPLES OF ON-SITE SOILS SHALL BE TAKEN UNDER THE SUPERVISION AND DIRECTION OF THE OWNER OR THEIR AUTHORIZED REPRESENTATIVE (MAXIMUM OF 10 SAMPLES). SOIL AMENDMENTS SHALL BE ADDED IN ACCORDANCE TO THE SOILS TESTING LABORATORY'S RECOMMENDATION UPON WRITTEN APPROVAL OF THE OWNER OR THEIR AUTHORIZED REPRESENTATIVE. SOIL AMENDMENTS

SPECIFIED ARE A REQUIRED MINIMUM FOR BIDDING PURPOSES AND SHALL BE MODIFIED IN ACCORDANCE TO THE SOILS TEST WRITTEN RECOMMENDATIONS. ALONG WITH SOIL TEST SAMPLES THE CONTRACTOR SHALL SUBMIT TO THE TESTING LABORATORY A COPY OF THE PLANT LIST.

FINISHED GRADES: SHALL BE I" BELOW TOP OF SURROUNDING HARDSURFACES FOR GROUND COVER AREAS AND 2" IN LAWN AREAS.

SOIL AMENDMENTS: TILL INTO THE TOP 6" OF TOPSOIL THE FOLLOWING AMOUNTS OF ORGANIC SOIL AMENDMENTS PER 1,000 SQUARE FEET OF PLANTING AREA:

1. 6 CUBIC YARDS OF NITROGEN FORTIFIED WOOD COMPOST. 2. 10 POUNDS OF SOIL SULFUR. 3. 15 POUNDS OF A 12-12-12 COMMERCIAL FERTILIZER.

PLANTING HOLE BACKFILL SHALL CONSIST OF:

1. 60 PERCENT SANDY TEXTURED CLASS "A" TOP SOIL. 2. 40 PERCENT NITROGEN FORTIFIED WOOD COMPOST. 3. 1 POUND 12-12-12 COMMERCIAL FERTILIZER PER CUBIC YARD OF BACKFILL MIX.

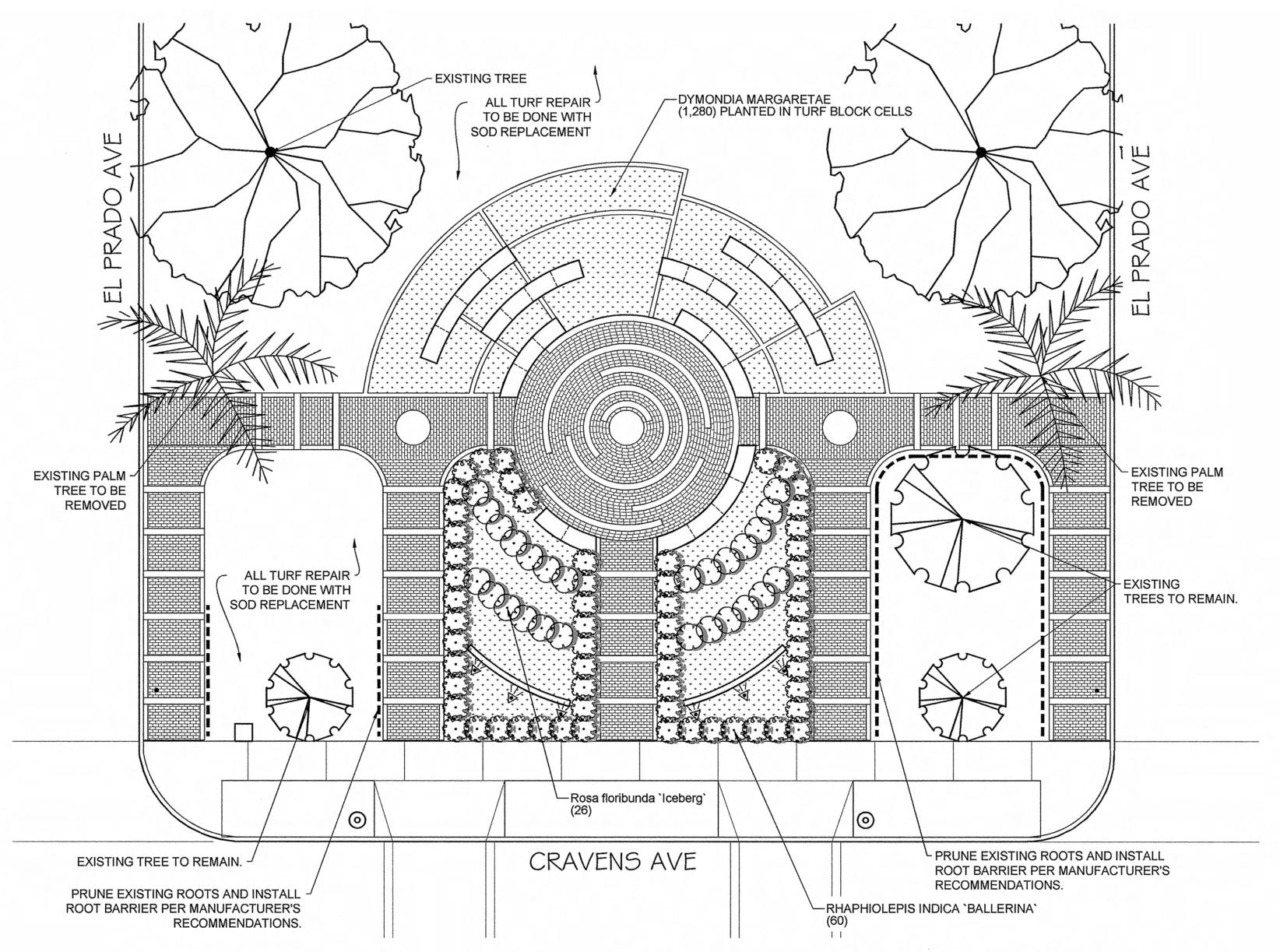
4. 2 POUNDS IRON SULFATE PER CUBIC YARD OF BACKFILL MIX.

PLANT MATERIALS: PROVIDE PLANTS OF THE SPECIES, KINDS, SIZES, AND SPACING, ETC., AS NOTED ON THE DRAWINGS. PLANTS SHALL BE SYMMETRICALLY, TYPICAL FOR VARIETY AND SPECIES, SOUND, HEALTHY, VIGOROUS, FREE FROM PLANT DISEASE, INSECT PESTS OR THEIR EGGS, AND SHALL HAVE HEALTHY, NORMAL ROOT SYSTEMS, WELL FILLING THEIR CONTAINERS, BUT NOT TO THE POINT OF BEING ROOTBOUND.

APPLICATION OF PRE-EMERGENT HERBICIDES: AFTER FINISH GRADING AND IMMEDIATELY AFTER PLANTING TREAT ALL NON-SEEDED PLANTING AREAS WITH A PRE-EMERGENT WEED AND GRASS SEED CONTROL AGENT; APPLY IN ACCORDANCE WITH THEIR MANUFACTURER'S RECOMMENDATIONS, (DYMID, EPTAM, BETASAN).

GUARANTEES: THE CONTRACTOR SHALL WARRANT ALL WORK FOR A PERIOD OF ONE YEAR FROM DATE OF THE FINAL POST-MAINTENANCE INSPECTION ACCEPTANCE. ALL SHRUBS SHALL BE WARRANTED FOR A PERIOD OF 6 MONTHS. THE WARRANTY DOES NOT INCLUDE ITEMS DAMAGED DUE TO OWNER NEGLECT OR ACTS OF GOD.

BOOK FORM SPECIFICATIONS: SEE BID ITEM SPECIFICATIONS FOR ADDITIONAL LANDSCAPE REQUIREMENTS AND REFERENCE SPECIFICATION (GREENBOOK).





PLANT SCHEDULE

SHRUBS BOTANICAL NAME COMMON NAME REMARKS Rhaphiolepis indica `Ballerina` Ballerina Indian Hawthorn Rosa floribunda `Iceberg` 26 Iceberg Rose 5 gal SIZE GROUND COVERS BOTANICAL NAME COMMON NAME REMARKS



Dymondia margaretae

Dymondia

flat @ 12" oc 1,330

LIGHTING SCHEDULE

SYMBOL DESCRIPTION Color Temp Finish Electrical Mounting Lamp SPJ-CBWL-16 FB-3W-CYL-TA105 2700K In-Ground (Flush)

NOTE: MTP300-SS TRANSFORMER WITH T-1703 TIMER TO BE INSTALLED INSIDE EXISTING IRRIGATION CABINET. ALL INSTALLATIONS TO BE AS SPECIFIED PER MANUFACTURER

			REVISIONS	
DATE	BY	CHECKED	DESCRIPTION	CITY OF TORRANCE
				PUBLIC WORKS DEPARTMENT
				TORRANCE CENTENNIAL PLAZA, FEAP-739
				PLANTING AND LIGHTING PLAN

BENCHMARK:

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NGVD29 ELEV. (FT) CY 9522 118.84 CY 8324 118.02

BASIS OF COORDINATES:

BEARINGS AND COORDINATES AS SHOWN HEREON ARE IN TERMS OF THE CALIFORNIA COORDINATE SYSTEM OF 1983 (EPOCH 2000.35), ZONE 5; BASED LOCALLY UPON THE FOLLOWING STATE OF CALIFORNIA CORS STATIONS:

> LONGTITUDE 33-49-24.59403 118-16-21.90043 33-49-24.59403 118-16-21.90043

PLANS PREPARED BY:





4/13/12 DATE BETH OVERSTREET PROJECT MANAGER R.C.E. NO. 63944 (EXP. 09/30/2012)

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RECOMMENDED BY:

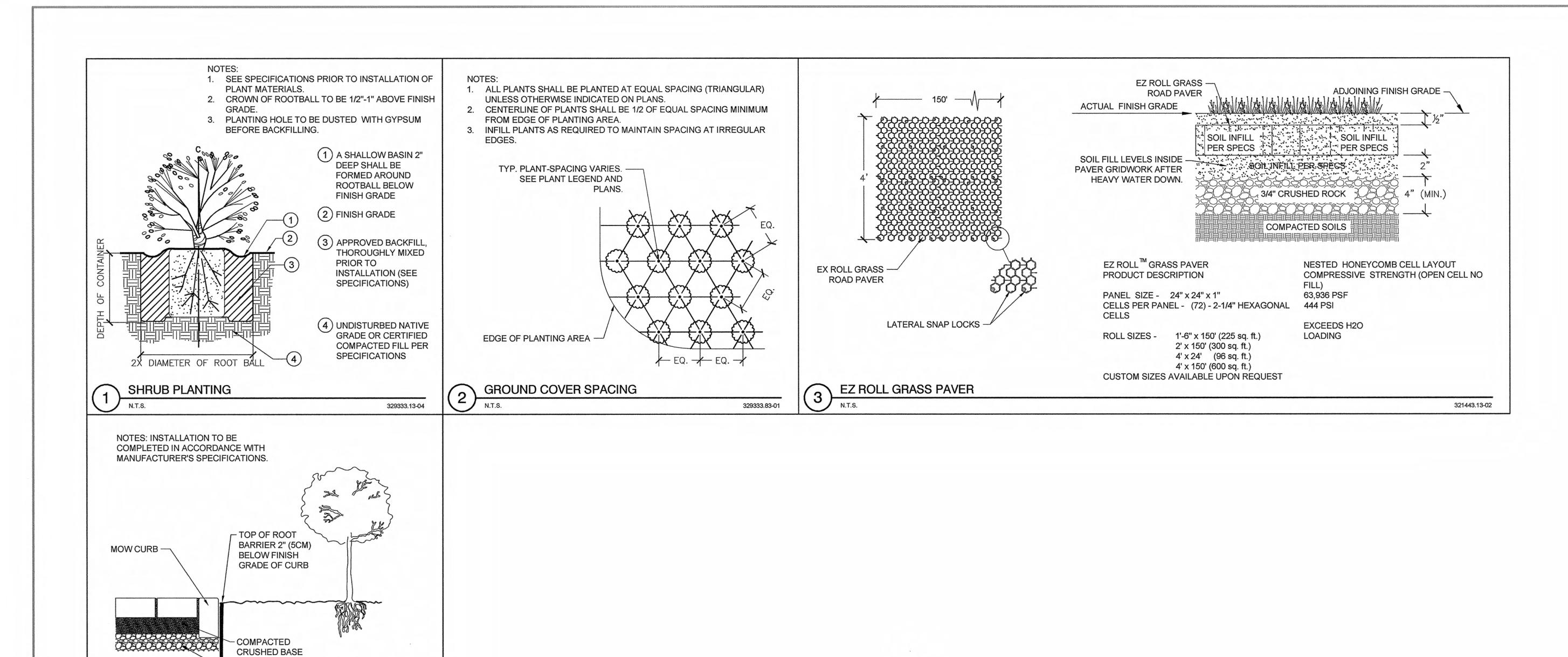
STEPHANIE HARRIS DESIGNED BY: ARTHUR ALANIZ 4/13/12 PROJECT ENGINEER: LEA REIS, ASSOCIATE ENGINEER

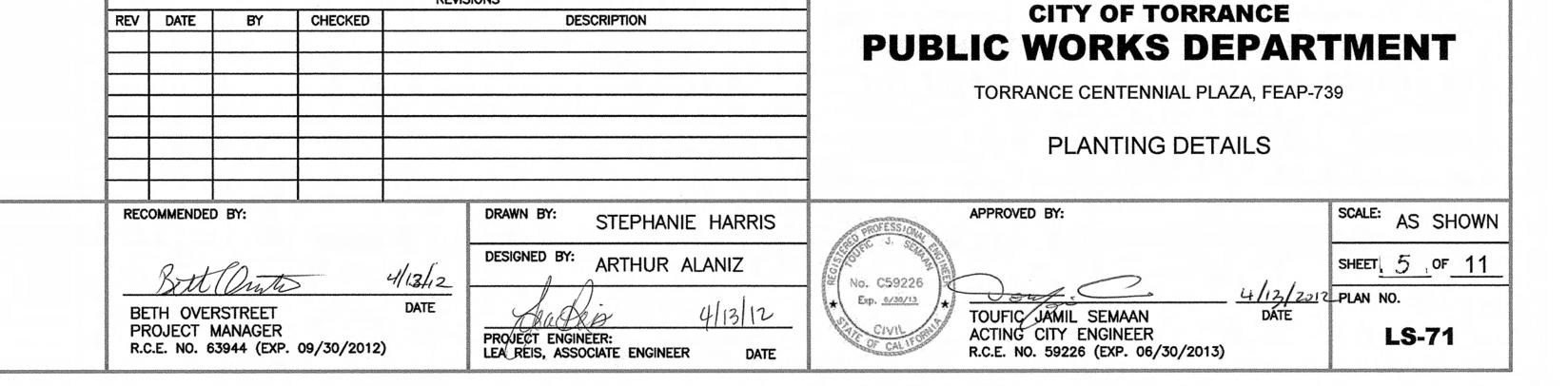
APPROVED BY:

TOUFIC JAMIL SEMAAN ACTING CITY ENGINEER R.C.E. NO. 59226 (EXP. 06/30/2013)

SCALE: AS SHOWN SHEET 4 OF 11 4/13/2012 PLAN NO. DATE

LS-71





REVISIONS

BENCHMARK:

ELEVATIONS AS SHOWN HEREON ARE IN TERMS OF THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29) BASED LOCALLY UPON THE FOLLOWING COUNTY OF LOS ANGELES BENCHMARK(S):

NAME: CY 9522 CY 8324

NGVD29 ELEV. (FT) 118.84 118.02

ROOT BARRIER

BASIS OF COORDINATES:

SUBGRADE COMPACTION

BEARINGS AND COORDINATES AS SHOWN HEREON ARE IN TERMS OF THE CALIFORNIA COORDINATE SYSTEM OF 1983 (EPOCH 2000.35), ZONE 5; BASED LOCALLY UPON THE FOLLOWING STATE OF CALIFORNIA CORS STATIONS:

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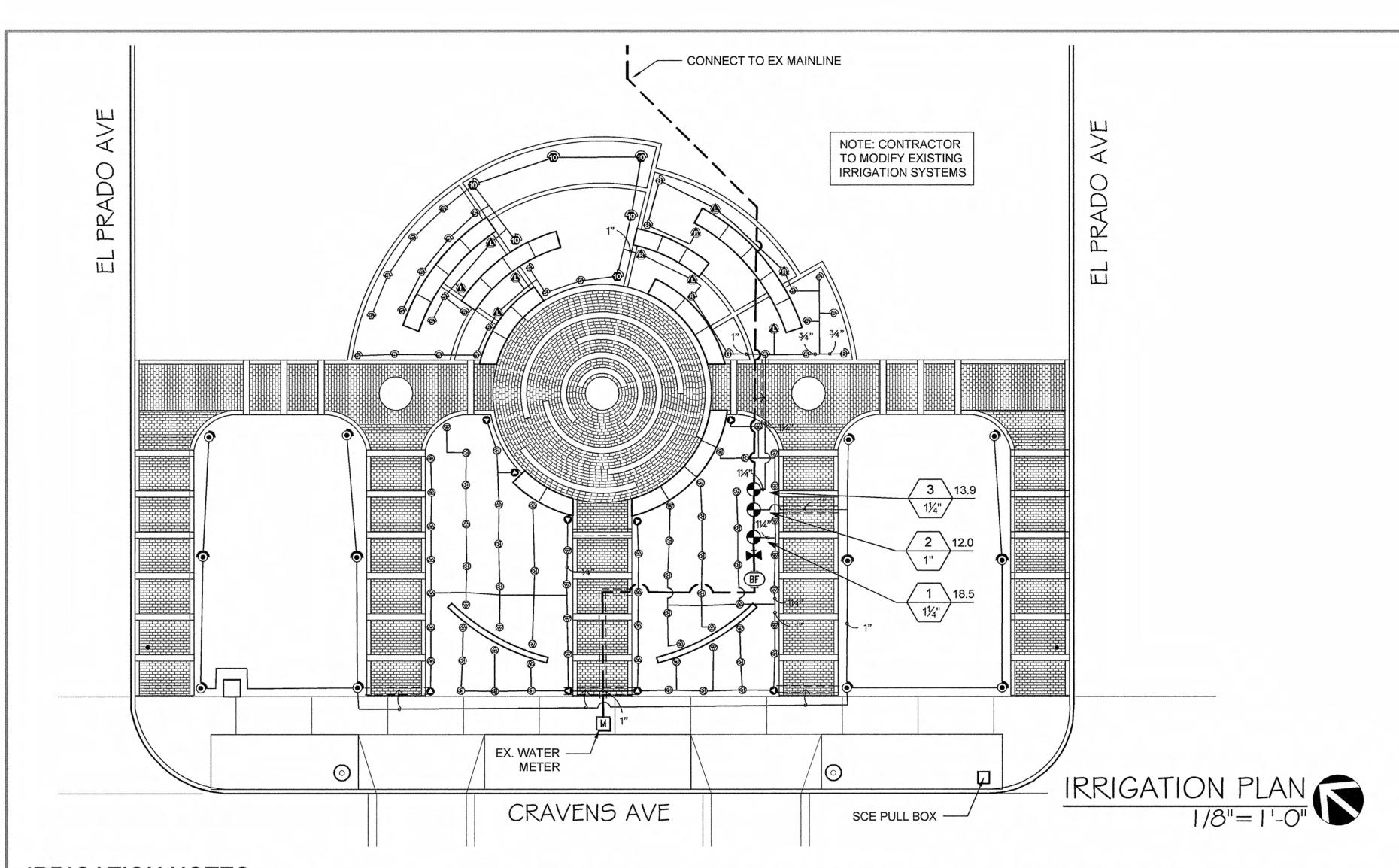
NAME LATITUDE LONGTITUDE

CRHS 33-49-24.59403 118-16-21.90043

CRHS 33-49-24.59403 118-16-21.90043

PLANS PREPARED BY:





IRRIGATION NOTES:

- DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTMENTS NECESSARY TO CONFORM TO ACTUAL FIELD CONDITIONS. EQUIPMENT SHOWN IN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED, WHENEVER POSSIBLE, WITHIN PLANTING AREAS OR LOCATED AS REQUESTED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.
- 2. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO FURNISH AND INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THESE DRAWINGS IN ACCORDANCE WITH THE IRRIGATION LEGEND, AND AS DESCRIBED IN THESE NOTES AND IN ACCORDANCE WITH APPLICABLE CODES, DETAILS, AND/OR THE MANUFACTURER'S WRITTEN RECOMMENDATIONS. COSTS INCURRED DUE TO ANY ADJUSTMENT, INCLUDING THOSE REQUESTED BY THE OWNER'S AUTHORIZED REPRESENTATIVE, RELATIVE TO THE LOCATION OR INSTALLATION OF EQUIPMENT AS SHOWN ON THE DRAWINGS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL REVIEW ALL EXISTING SITE CONDITIONS PRIOR TO SUBMITTING BID AND PRIOR TO COMMENCING INSTALLATION. IF ANY DISCREPANCIES EXIST, THEY SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE.
- 4. THE IRRIGATION SYSTEM HAS BEEN DESIGNED BASED ON A MINIMUM OPERATING PRESSURE AND MAXIMUM GPM DEMAND. THE CONTRACTOR SHALL VERIFY THE MINIMUM OPERATING PRESSURE AT EACH POINT OF CONNECTION PRIOR TO COMMENCING INSTALLATION.
- THE CONTRACTOR SHALL VERIFY LOCATION OF ALL SERVICES AND UNDERGROUND UTILITIES AND SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE INCURRED DURING HIS WORK.

- PRIOR TO COMMENCING WORK ON THE PROJECT, THE CONTRACTOR SHALL ARRANGE AN ON SITE CONFERENCE WITH THE OWNER'S AUTHORIZED REPRESENTATIVE TO DISCUSS THE USE OF MATERIALS, INSTALLATION METHODS, AND ANY CLARIFICATIONS.
- THE IRRIGATION CONTRACTOR SHALL COORDINATE AND MAKE IRRIGATION CONNECTION AT BOTH ELECTRICAL AND WATER SERVICE POINTS AS DESIGNATED BY BOTH THE GENERAL AND PLUMBING CONTRACTOR PRIOR TO THE START OF THE OVER-ALL PROJECT CONSTRUCTION.
- ALL IN GROUND NON-PRESSURE LINES SHALL BE PVC SCHEDULE 40 (MIN. 3/4") WITH PVC SCHEDULE 40 SOLVENT-WELD FITTINGS. ALL IN GROUND PRESSURE MAINS SHALL BE SCH. 80 PVC WITH SCH 80 PVC FITTINGS. ALL IN GROUND NON-PRESSURE AND PRESSURE LINES SHALL BE INSTALLED IN PLANTERS AND LAWN AREAS WHENEVER POSSIBLE.
- THREADED FITTINGS AND RISERS SHALL BE SCHEDULE 80 PVC UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- 10. ALL PIPES UNDER PAVED AREAS SHALL BE INSTALLED IN OVERSIZED PVC SCHEDULE 40 PIPE SLEEVES PRIOR TO PAVING (MINIMUM TWICE THE DIAMETER OF THE IRRIGATION OR ELECTRICAL LINES, UNLESS OTHERWISE INDICATED ON THE DRAWINGS).
- 11. THE CONTRACTOR SHALL FLUSH ALL IRRIGATION LINES AND ADJUST ALL IRRIGATION HEADS FOR 100% COVERAGE AND TO PREVENT OVERSPRAY ONTO WALKS, WALLS, DRIVEWAYS, AND BUILDING.
- 12. BACKFLOW DEVICES SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH THE DRAWINGS AND LOCAL PLUMBING CODE, BY THE CITY OF TORRANCE.
- 13. IRRIGATION HEADS IN AREAS ADJACENT TO WALKS, CURBS OR OTHER MOUNTABLE HARDSCAPE SHALL BE POP- UPS.

- UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL REMOVE ALL HIS MATERIALS, EQUIPMENT, AND WASTE AND DEBRIS TO THE SATISFACTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE.
- 15. THE SPRINKLER INSTALLATION SHALL NOT BE DEEMED "COMPLETE" UNTIL THE CONTRACTOR HAS INSTALLED AND ADJUSTED ALL SPRINKLER HEADS, VALVES, AND ALL RELATED IRRIGATION EQUIPMENT TO THE SATISFACTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE, AND HAS SUBMITTED APPROVED "AS-BUILT" DRAWINGS.
- THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, CONFERENCE AND INSPECTIONS REQUIRED BY THE CITY FOR HIS PORTION OF THE WORK.
- 17. BOOK FORM SPECIFICATIONS: SEE BID SPECIFICATIONS FOR ADDITIONAL IRRIGATION REQUIREMENTS AND REFERENCE SPECIFICATION (GREENBOOK).

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	DETAIL
A A A A A A EST LCS RCS CST SST	Rain Bird 1806 15 Strip Series Turf Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet.	10	30	2/L-3.1
(a) (a) (a) (a) (a) (b) (a) (b) (a) (a) (b) (a) (b) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Rain Bird 1806 5 Series MPR Turf Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet.	25	30	2/L-3.1
(a) (b) (b) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	Rain Bird 1806 8 Series MPR Turf Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet.	5	30	2/L-3.1
(a) (a)	Rain Bird 1806 10 Series MPR Turf Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet.	6	30	2/L-3.1
ООООО Q т н п тQ г	Rain Bird 1804-SAM-P45-R17-24 17`-24` Rotary Stream, w/1804 turf spray body, 4.0" pop-up, with check valve and in-stem pressure regulator.	12	30	
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY		DETAIL
→ ₩ ♥ ₾ 	Rain Bird SQ Series ADP Square Spray SQ Series Square Pattern Nozzle low-volume spray with SQ ADP PolyFlex Riser adapter on riser length as indicated.	76		1/L-3.1
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY		DETAIL
•	Rain Bird GB Brass Electric Remote Control Valve	3		5/L-3.1
X 4	Nibco T-FP600a 1/4 turn ball valve, same size as mainline pipe diameter at valve location. Size Range - 1/4"-2".	1		3/L-3.1
(BF)	New Reduced Pressure Backflow 2" Febco 825Y or equivalent. To be supplied and installed by the City of Torrance	1		
	Irrigation Lateral Line: PVC Schedule 40 PVC Schedule 40 irrigation pipe. Only lateral transition pipe sizes 1" and above are indicated on the plan, with all others being 3/4" in size.	837.5 l.f.		
	Irrigation Mainline: PVC Schedule 80	121.1 l.f.		
		61.7 l.f.		
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	01.7 1.1.		
#• #•	Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving	01.7 i.i.		

				REVISIONS
REV	DATE	BY	CHECKED	DESCRIPTION
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PECC	OMMENDED	DV+		DRAWN BY: STEDHANIE HARRIS

# **CITY OF TORRANCE PUBLIC WORKS DEPARTMENT**

TORRANCE CENTENNIAL PLAZA, FEAP-739

**IRRIGATION PLAN** 

**BENCHMARK:** 

ELEVATIONS AS SHOWN HEREON ARE IN TERMS OF THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29) BASED LOCALLY UPON THE FOLLOWING COUNTY OF LOS ANGELES BENCHMARK(S):

CY 9522 CY 8324

NGVD29 ELEV. (FT) 118.84 118.02

BASIS OF COORDINATES:

BEARINGS AND COORDINATES AS SHOWN HEREON ARE IN TERMS OF THE CALIFORNIA COORDINATE SYSTEM OF 1983 (EPOCH 2000.35), ZONE 5; BASED LOCALLY UPON THE FOLLOWING STATE OF CALIFORNIA CORS STATIONS:

> LATITUDE LONGTITUDE CRHS 33-49-24.59403 118-16-21.90043 118-16-21.90043 33-49-24.59403

PLANS PREPARED BY:





Bettanto 4/13/12 DATE BETH OVERSTREET PROJECT MANAGER

R.C.E. NO. 63944 (EXP. 09/30/2012)

DESIGNED BY: ARTHUR ALANIZ PROJECT ENGINEER: LEA REIS, ASSOCIATE ENGINEER DATE

STEPHANIE HARRIS

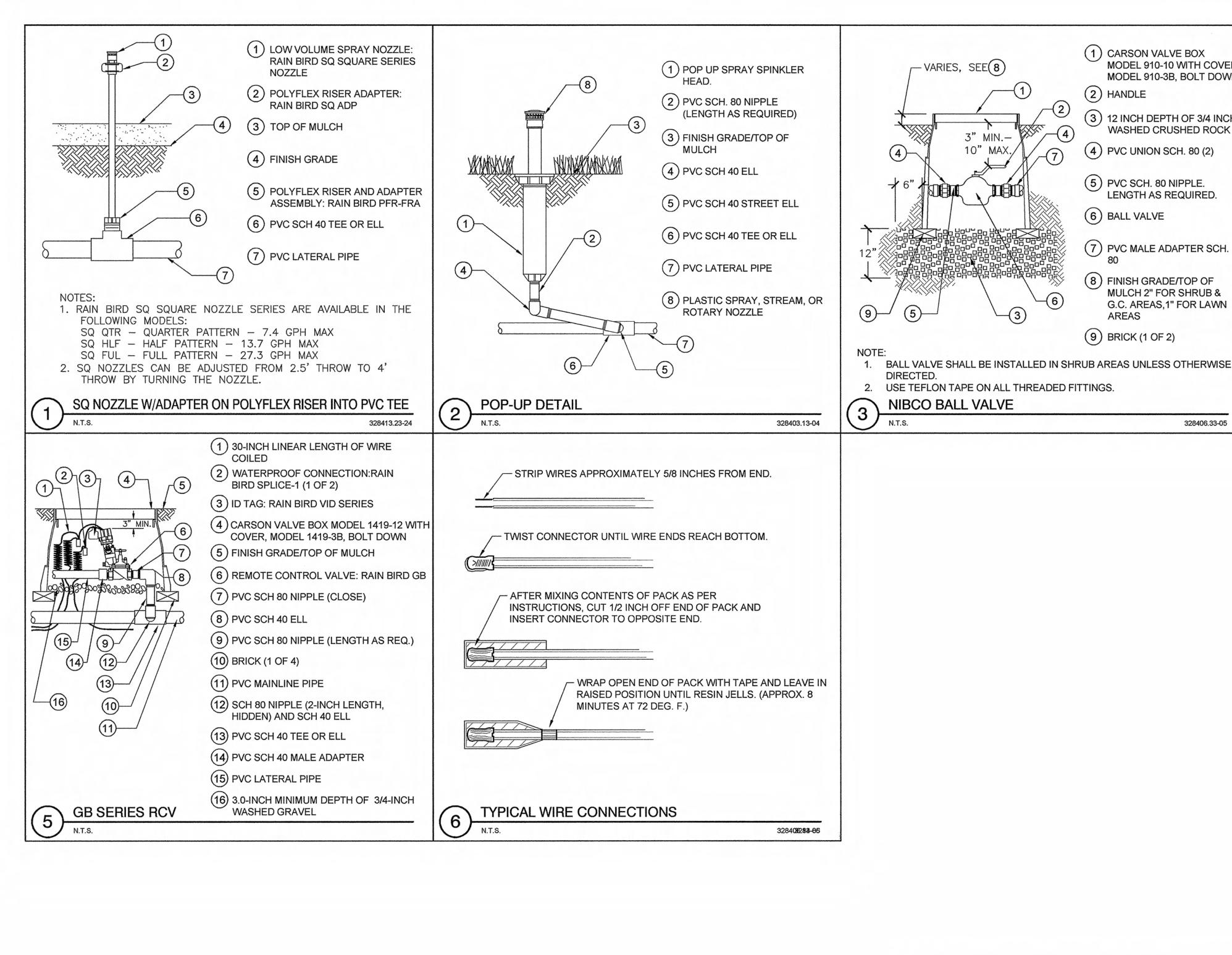
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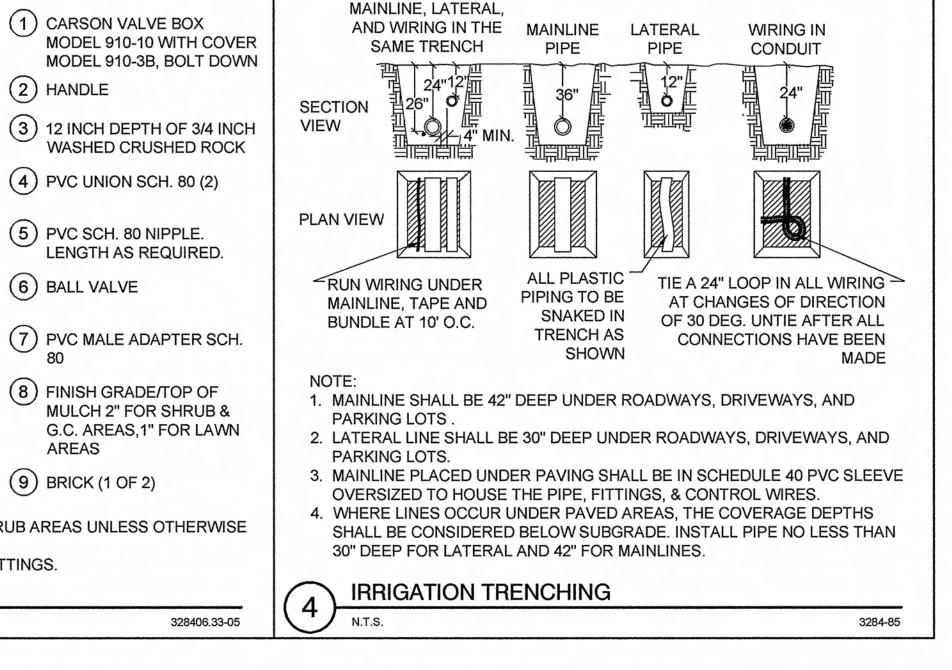
APPROVED BY: TOUFIC JAMIL SEMAAN ACTING CITY ENGINEER R.C.E. NO. 59226 (EXP. 06/30/2013)

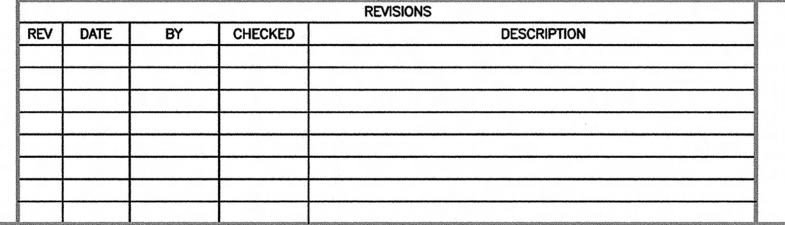
SHEET 6 OF 11 4/13/201 PLAN NO. DATE

LS-71

SCALE: AS SHOWN







# **CITY OF TORRANCE PUBLIC WORKS DEPARTMENT**

TORRANCE CENTENNIAL PLAZA, FEAP-739

IRRIGATION DETAILS

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LATITUDE CRHS

PLANS PREPARED BY:

ARTHUR ALANIZ

SCALE: AS SHOWN RECOMMENDED BY: APPROVED BY: STEPHANIE HARRIS SEED DESIGNED BY: SHEET 7 OF 11 4/13/12 GROUP Iandrcape archiffecture ISOS border avenue torrance ca 90501 T 310.787.1055 F 310.787.9291 No. C59226 4/13/2012 PLAN NO. DATE BETH OVERSTREET TOUFIC JAMIL SEMAAN DATE LONGTITUDE PROJECT MANAGER 33-49-24.59403 118-16-21.90043 ACTING CITY ENGINEER LS-71 PROJECT ENGINEER: R.C.E. NO. 63944 (EXP. 09/30/2012) LEA REIS, ASSOCIATE ENGINEER 33-49-24.59403 118-16-21.90043 R.C.E. NO. 59226 (EXP. 06/30/2013)

